

TOWN OF MIDDLETOWN
PUMPING STATION CHECKLIST
Sheet 1 of 2

Checklist:

The following is the minimum information required:

Calculations:

- ___ Sealed by a Registered P.E.
- ___ Flow calculations – average and peak
- ___ Pumps: TDH, HP for pumping facilities (i.e., low pt. to higher discharge pt.)
- ___ Gradient plotted on force main profile when pumping to high point and lower discharge point
- ___ Generator size
- ___ Buoyancy vs. weight of wet well (100 yr. flood elevation if applicable)
- ___ Bearing pressure vs. bearing capacity
- ___ Other (e.g. common forcemain for one or more pumping stations)

Drawings:

- ___ Site plan: 1" = 20' Min.
- ___ Contours (existing, proposed)
- ___ Building located on site by dimensions
- ___ Site dimensioned and located on property large enough for parking and turnaround
- ___ Chain link fence (6 ft.) with 12 ft. double-leaf gate
- ___ Water service – properly sized
- ___ Gravity sewer entering, forcemain leaving
- ___ Electric service (pole, pole-mounted transformer, pad-mounted transformer, aerial, underground)
- ___ Site paving – all area within the fence line (2 inch hot mix, hot laid asphaltic concrete Type "C", 8 inch aggregate base type "B")
- ___ Access road – 12' Min. width
- ___ Set back – same as for a house in the development
- ___ Other things to complete – a full-blown coverage of a P.S. site including the requirements of lines and grades
- ___ Floor plan
- ___ Building/wet well section
- ___ Roof framing
- ___ Plan
- ___ Foundation Plan
- ___ Building elevations

All to scale, full view, completely detailed, dimensioned and labeled, with regard to architectural, structural, pumps, piping, and other mechanical requirements.

Electrical Drawings:

- ___ Floor plan to scale, completely detailed and labeled

- ___ Single line diagram with power supply confirmed by DP & L
- ___ Light and power panel displayed with circuits and uses
- ___ Schematics
 - ___ Pump control
 - ___ Exhausts
 - ___ Heaters
 - ___ Telemetry
 - ___ Generator
 - ___ Air compressors
- ___ Prepared and sealed by a Registered Electrical Engineer

Details:

- ___ Architecture
 - ___ Door frame (head, jamb, sill)
 - ___ Wet well hatch (frame and cover, grab bars)
- ___ Pumps: Pump/System Head Curve
 - ___ System design Data
- ___ Forcemain; Air release valve and manholes; cleanouts
- ___ Buttressed Bends
- ___ Generator and fuel storage tank; (with day tank if necessary; natural gas alternative)
- ___ Legend

Specs/Notes on drawings:

- ___ Generator
- ___ Electrical
- ___ Mechanical
- ___ Painting
- ___ Other (as applicable or necessary)

Other:

- ___ Show P.S. on forcemain profile
- ___ Eliminate high points if possible
- ___ Keep discharge point as high as possible, normally
- ___ FEMA map
- ___ DNREC Data Sheet